**JOINT DECLARATION FOR PATENT APPLICATION**

The below named inventors, we hereby declare that:

Our residence, post office address and citizenship are as stated below next to our names;

We believe we are the original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled **CLUSTERING OF RECORDED PATIENT NEUROLOGICAL ACTIVITY TO DETERMINE LENGTH OF A NEUROLOGICAL EVENT**, the specification of which is attached hereto.

We hereby state that we have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

We hereby acknowledge the duty to disclose information, which is material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56(a).

Prior Foreign Application(s)

We hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application(s) for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Country	Application No.	Date of Filing (day month year)	Date of Issue (day month year)	Priority Claimed Under 35 USC §119
PCT	PCT/US03/32940	15/10/2003		Yes

Prior United States Provisional Application(s)

We hereby claim priority benefits under Title 35, United States Code, §119(e)(1) of any U.S. provisional application listed below:

U.S. Provisional Application No.	Date of Filing (day month year)	Priority Claimed Under 35 USC §119(e)(1)
60/503,794	19/09/2003	Yes
60/418,496	15/10/2002	Yes

Prior United States Application(s)

We hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, we acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial No.	Date of Filing (Day, Month, Year)	Status — Patented, Pending, Abandoned

Power of Attorney

And we hereby appoint, both jointly and severally, as our attorneys with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith the practitioners at:

Customer Number: 22908

Please address all correspondence and telephone communications to the address and telephone number for this Customer Number.

And we hereby appoint, both jointly and severally, as our attorneys with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith the following attorneys and agents, their registration numbers being listed after their names:

John W. Albrecht	Reg. No. 40,481
Stephen W. Bauer	Reg. No. 32,192
E. Lacy Belden	Reg. No. 50,751
Thomas G. Berry	Reg. No. 31,736
Keith M. Campbell	Reg. No. 46,597
Daniel G. Chapik	Reg. No. 43,424
Kenneth J. Collier	Reg. No. 34,982
Daniel W. Latham	Reg. No. 30,401
Paul H. McDowall	Reg. No. 34,873
Michael C. Soldner	Reg. No. 41,455
Girma Wolde-Michael	Reg. No. 36,724
Thomas F. Woods	Reg. No. 36,726

whose correspondence address is MEDTRONIC, INC., 710 Medtronic Parkway, NE, LC 340, Minneapolis, MN 55432-5604.

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature Mark G. Frei

Date 2/20/04

Full Name of First Inventor: FREI, Mark G.
 Residence: 2513 Via Linda Drive, Lawrence, KS 66047
 Citizenship: US
 Post Office Address: 2513 Via Linda Drive, Lawrence, KS 66047

Signature I. Osorio

Date 2/20/04

Full Name of Second Inventor: OSORIO, Ivan
 Residence: 4005 W. 124th Street, Leawood, KS 66209
 Citizenship: US
 Post Office Address: 4005 W. 124th Street, Leawood, KS 66209

Signature _____

Date _____

Full Name of Third Inventor: GRAVES, Nina M.
 Residence: 4312 Ridge Ct., Minnetonka, MN 55391
 Citizenship: US
 Post Office Address: 4312 Ridge Ct., Minnetonka, MN 55391

Signature _____

Date _____

Full Name of Fourth Inventor: SCHAFFNER, Scott F.
 Residence: 10602 Showboat Cove, Austin, TX 78730
 Citizenship: US
 Post Office Address: 10602 Showboat Cove, Austin, TX 78730

Signature _____

Date _____

Full Name of Fifth Inventor: RISE, Mark T.
 Residence: 7745 Aetna Avenue NE, Monticello, MN 55362
 Citizenship: US
 Post Office Address: 7745 Aetna Avenue NE, Monticello, MN 55362

Signature _____

Date _____

Full Name of Sixth Inventor: GIFTAKIS, Jonathon E.
 Residence: 3701 78th Avenue N, Brooklyn Park, MN 55443
 Citizenship: Canada
 Post Office Address: 3701 78th Avenue N, Brooklyn Park, MN 55443

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature _____

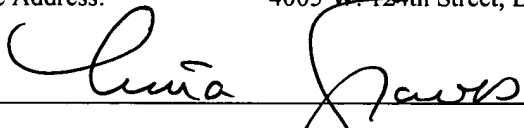
Date _____

Full Name of First Inventor: FREI, Mark G.
 Residence: 2513 Via Linda Drive, Lawrence, KS 66047
 Citizenship: US
 Post Office Address: 2513 Via Linda Drive, Lawrence, KS 66047

Signature _____

Date _____

Full Name of Second Inventor: OSORIO, Ivan
 Residence: 4005 W. 124th Street, Leawood, KS 66209
 Citizenship: US
 Post Office Address: 4005 W. 124th Street, Leawood, KS 66209

Signature  _____

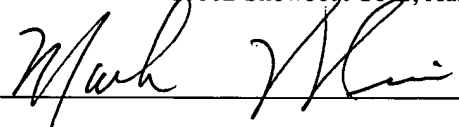
Date 2/18/04

Full Name of Third Inventor: GRAVES, Nina M.
 Residence: 4312 Ridge Ct., Minnetonka, MN 55391
 Citizenship: US
 Post Office Address: 4312 Ridge Ct., Minnetonka, MN 55391

Signature _____

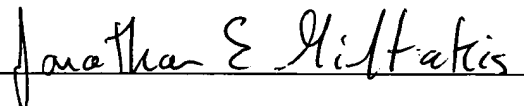
Date _____

Full Name of Fourth Inventor: SCHAFFNER, Scott F.
 Residence: 10602 Showboat Cove, Austin, TX 78730
 Citizenship: US
 Post Office Address: 10602 Showboat Cove, Austin, TX 78730

Signature  _____

Date Feb. 12, 2004

Full Name of Fifth Inventor: RISE, Mark T.
 Residence: 7745 Aetna Avenue NE, Monticello, MN 55362
 Citizenship: US
 Post Office Address: 7745 Aetna Avenue NE, Monticello, MN 55362

Signature  _____

Date Feb 16, 2004

Full Name of Sixth Inventor: GIFTAKIS, Jonathon E.
 Residence: 3701 78th Avenue N, Brooklyn Park, MN 55443
 Citizenship: Canada
 Post Office Address: 3701 78th Avenue N, Brooklyn Park, MN 55443

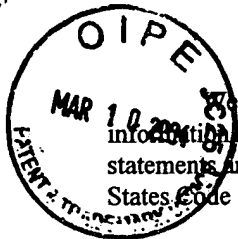
Signature



Date

02/17/2004

Full Name of Seventh Inventor: CARLSON, David L.
Residence: 141 46th Avenue NE, Fridley, MN 55421
Citizenship: US
Post Office Address: 141 46th Avenue NE, Fridley, MN 55421



I hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature _____

Date _____

Full Name of First Inventor: FREI, Mark G.
Residence: 2513 Via Linda Drive, Lawrence, KS 66047
Citizenship: US
Post Office Address: 2513 Via Linda Drive, Lawrence, KS 66047

Signature _____

Date _____

Full Name of Second Inventor: OSORIO, Ivan
Residence: 4005 W. 124th Street, Leawood, KS 66209
Citizenship: US
Post Office Address: 4005 W. 124th Street, Leawood, KS 66209

Signature _____

Date _____

Full Name of Third Inventor: GRAVES, Nina M.
Residence: 4312 Ridge Ct., Minnetonka, MN 55391
Citizenship: US
Post Office Address: 4312 Ridge Ct., Minnetonka, MN 55391

Signature _____

Date 2/19/04

Full Name of Fourth Inventor: SCHAFFNER, Scott F.
Residence: 10602 Showboat Cove, Austin, TX 78730
Citizenship: US
Post Office Address: 10602 Showboat Cove, Austin, TX 78730

Signature _____

Date _____

Full Name of Fifth Inventor: RISE, Mark T.
Residence: 7745 Aetna Avenue NE, Monticello, MN 55362
Citizenship: US
Post Office Address: 7745 Aetna Avenue NE, Monticello, MN 55362

Signature _____

Date _____

Full Name of Sixth Inventor: GIFTAKIS, Jonathon E.
Residence: 3701 78th Avenue N, Brooklyn Park, MN 55443
Citizenship: Canada
Post Office Address: 3701 78th Avenue N, Brooklyn Park, MN 55443